USDA

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SOUTH DAKOTA TECHNICAL GUIDE (SDTG)
NOTICE SD-393

SECTION I

1. Range Technical Note No. 17, Determining Potential Leaching Risk to South Dakota (SD) Groundwater SD Leaching Tool, has been updated in the Field Office Tech Guide (FOTG) under Section I, Technical Notes, Agronomy.

   The Leaching Method was updated for Hand and Turner Counties. We now have pdf maps of the leaching layers in the County Comprehensive Nutrient Management Plan (CNMP) located in Section II of the FOTG.

2. The National Oceanic and Atmospheric Administration (NOAA). Atlas 14 Precipitaion Frequency Update: The following information has been developed and placed in Section 1, under a new folder titled "Estimating Runoff and Peak Discharges:"

   - NRCS SD Supplement to the National Engineering Handbook (NEH), Part 650, Chapter 2, Estimating Runoff and Peak Discharges
   - NRCS SD MSE1, MSE2, MSE3, MSE4, MSE5, MSE6 Storm Distribution Data
   - New Precipitation data files for the Natural Resources Conservation Service (NRCS) National EFH-2 computer program

   Background. The NOAA recently published NOAA Atlas 14 Precipitation-Frequency Atlas, Volume 8, for the midwestern United States. This publication updated precipitation-frequencies that NRCS previously used from NOAA's Technical Paper 40.

   The new precipitation depths listed in Appendix 2 of the SD Supplement to the NEH, Part 650, Chapter 2, supersede the precipitation depths from Technical Paper 40 (TP 40). Also, the new NRCS storm distributions, MSE1, MSE2, MSE3, MSE4, MSE5, MSE6, replace the NRCS Type II storm distribution. Since NRCS Type II storm distribution was developed using TP 40 data it should not be used with the new NOAA Atlas 14 Volume 8 precipitation depths.

   This updated information is to be used for all new NRCS hydrology applications in SD.

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